```
semaphore wait, mutex1, mutex2, bridge;
mutex1 = 1; mutex2 = 1; wait = 1; bridge = k;
int count1, count2; count1 = 0; count2 = 0;

process P东(){                      process P西(){
    P(mutex1);                          P(mutex2);
        count1++;                           count2++;
        if(count1 == 1)                     if(count2 == 1)
            P(wait);                            P(wait);
    V(mutex1);                          V(mutex2);
    P(bridge)                           P(bridge);
        过独木桥;                            过独木桥;
    V(bridge);                          V(bridge);
    P(mutex1);                          P(mutex2);
        count1--;                           count2--;
        if(count1 == 0)                     if(count2 == 0)
            V(wait);                            V(wait);
    V(mutex1);                          V(mutex2);
}                                   }
```